

## ABSTRACT

An elastic fabric is formed by applying an elastic yarn to the fabric in a manner where the elastic yarn is in continue in either length direction (h) of the fabric or width direction(r) of the fabric.

(i) stress at 10% elongation of the fabric is set up 150~ 600N/5cm in the direction(X) where the elastic yarn is in continuous.

(ii) stress at 10% elongation(B;N/5cm) in the 45 degrees bias direction(Z), where has an inclination of 45 degrees to the prolonging direction(X), is set up 5~20 % of stress at 10% elongation(F;N/5cm) in the prolonging direction(X) of the elastic yarns.

(iii) a rate of hysteresis loss  $\Delta E$  in the prolonging direction(X) of the fabric is set up 20 ~45%.

When the elastic fabric is hanged over a frame, an elastic top material which is small sized, easy to deal with, light weight not bulky, and limds may be supported in stable can be obtained.

Yarns of which breaking elongation is more than 60 % and rate of an elastic recovery after 15 % elongation is more than 90 % are used for the elastic yarn.